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- (71) Applicant (for all designated States except US): KONIN-KLIJKE PHILIPS ELECTRONICS N.V. [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): PAWLAK, Bartlomiej, J. [PL/BE]; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).
- (74) Agents: ELEVELD, Koop, J. et al.; Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

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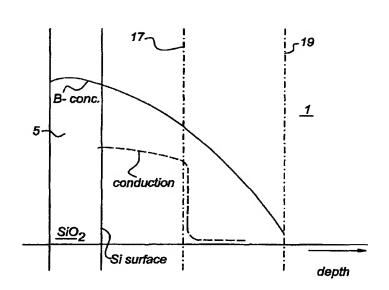
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(54) Title: A SEMICONDUCTOR SUBSTRATE WITH SOLID PHASE EPITAXIAL REGROWTH WITH REDUCED DEPTH OF DOPING PROFILE AND METHOD OF PRODUCING SAME



(57) Abstract: Method of producing a semiconductor device, comprising: providing a semiconductor substrate, providing an insulating layer on a top surface of the semiconductor substrate, c) making an amorphous layer in a top layer of said semiconductor substrate by a suitable implant, d) implanting a dopant into said semiconductor substrate through said insulating layer to provide said amorphous layer with a predetermined doping profile, said implant being performed such that said doping profile has a peak value located within said insulating layer, e) applying a solid phase epitaxial regrowth action to regrow said amorphous layer and activate said dopant.

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